APPENDIX 7-8

Information Submitted in Compliance With 30 CFR 77.216-1 and 30 CFR 77.216-2

I hereby certify that the design contained herein was prepared by myself and is true and correct to the best of my knowledge.

Richard & white

Richard B. White, P.E.

No. 7102

RICHAND B. WHITE

Appendix 7-8

Information Submitted in Compliance With 30 CFR 77.216-1 and 30 CFR 77.216-2

For ease of review, the information contained herein is presented by reference to the applicable regulations. Items contained within the main permit document will be referenced herein.

30 CFR 77.216-1

A permanent identification marker will be installed on the dam of the sedimentation pond near the emergency spillway. This marker will be constructed of a durable material, will measure at least six feet high, and will show the identification number of the pond assigned by the District Manager of the U.S. Mine Safety and Health Administration. The name of the pond will be identified on the marker, along with the name of the owner/operator. This marker will be installed within 30 days following initiation of construction activities on the revised pond.

30 CFR 77.216-2

(a)(1). Owner/Operator: Genwal Coal Company

P.O. Box 1201

Huntington, Utah 84528

Impoundment Name: Genwal Sedimentation Pond

No. 1

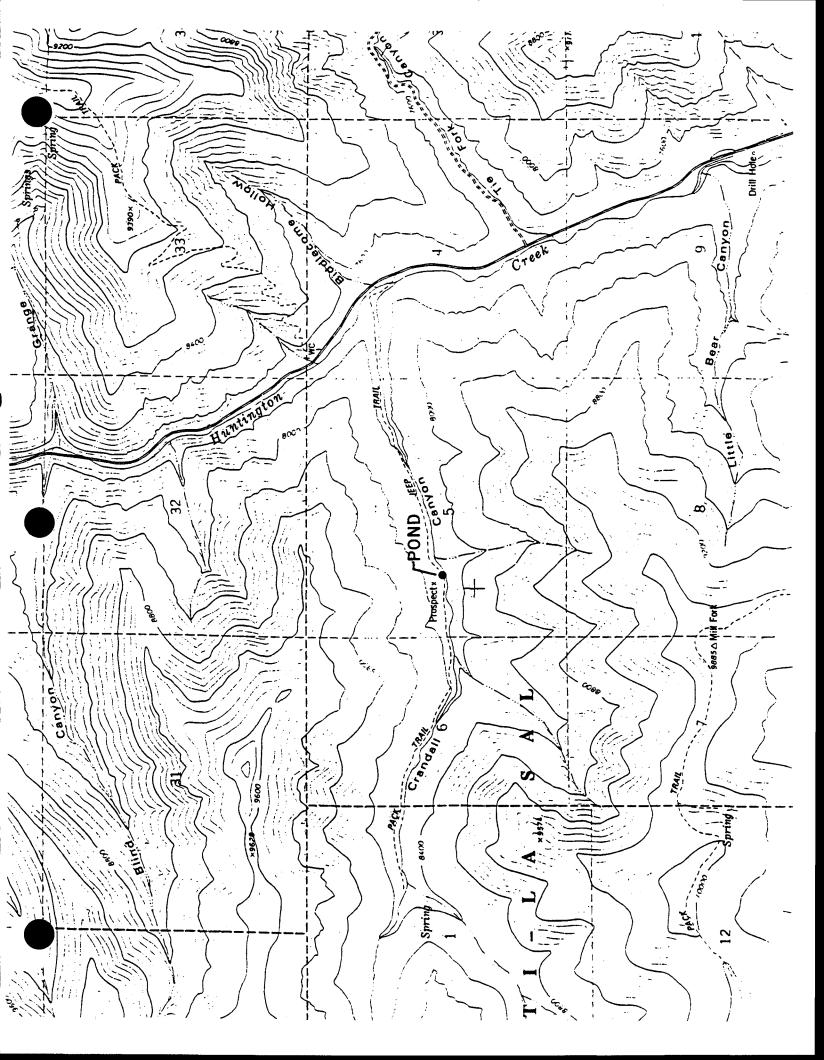
Impoundment ID No.: A number has not yet been

received from the District

Manager of MSHA

MSHA Mine ID No.: 42-01715

- (a)(2). See figure on page 2 of this appendix.
- (a)(3). The purpose of this impoundment will be to control runoff and sediment yield from the surface facilities associated with the Crandall Canyon Mine of Genwal Coal Company.



- (a)(4). This impoundment will pond water from small ephemeral watersheds that exist within the Crandall Creek watershed. The total drainage area contributing to the pond is 10.4 acres, of which 5.5 acres is undisturbed, 2.7 acres is disturbed, 0.2 acre is pond at design stage, and 2.0 acres is reclaimed.
- (a)(5). A description of the physical and engineering properties of the foundation materials on which the impoundment has been constructed is provided in Appendix 7-6.
- (a)(6). A description of the type, size, range, and physical and engineering properties of the materials used to construct the dam is provided in Appendix 7-6. The method of site preparation and construction is discussed in Section 7.2.3.2.

This impoundment was originally constructed in October 1983. Revisions to the pond will begin in June or July 1986.

- (a)(7). See Appendix 7-4, Plates 7-4 and 7-6, and Section 7.2.3.2.
- (a)(8). A piezometer has been installed at the location shown on Plate 7-4 for the purpose of monitoring the phreatic surface in the dam. Additional information concerning this piezometer is contained in Section 7.2.3.2.
 - (a)(9). See Figure 7-16 and Appendix 7-4.
- (a)(10). According to Figure 17 in the book "Design of Small Dams", the probable maximum 6-hour precipitation for general-type storms at the site is 4.1 inches. Results of analyses to determine runoff from this storm are attached at the end of this appendix. These calculations were made using the unit hydrograph approach discussed in Section 7.2.1.2.

Three storm distributions were used in the runoff determination. In all cases, runoff volume from the PMP was found to be 1.8155 inches (1.57 acre-feet). Peak flows varied from 29.6 cfs using the SCS Type II storm distribution, to 14.4 cfs using the SCS Type B distribution, to 9.6 cfs using the Farmer-Fletcher distribution.

- (a)(11). See Appendix 7-4.
- (a)(12). See Appendix 7-4.
- (a)(13). See Appendix 7-6.

- (a)(14). See Plates 3-1, 3-2, and 3-3.
- (a)(15). See Section 7.2.3.2.
- (a)(16). See Section 3.5.3.
- (a)(17). See the certification on the frontal page of this appendix.
- (a)(18). No additional information has been required by the District Manager of MSHA.
- (b). The changes and modifications proposed by this submittal will not be initiated until these changes and modifications have been approved by the District Manager of MSHA.

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             * EARTHFAX FNGINEERING. INC. *
             * HYDROGRAPH GENERATION MODEL *
                USING SCS CURVE NUMBER
                     METHODOL DGY
             SENTIFICATION: SED. POND INFLOW FROM PMP
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                      WATERSHED:
                            AREA = 0.016 50. MI.
     p181. = SCS TYPE II
                            CN = 76.0
     DEPTH = 4.10 IN.
                            TIME OF CONC. = 0.32 HR.
     DURATION = 6.0 HR.
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JTPUT SUMMARY:
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   MITIAL AMSTRACTION = 0.6316 INCHES
               29.58 CFS ( 2.8653 IN/HR)
  PEAK FLOW "
  TIME TO PEAK = 3.17 HOURS
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PUNDER VOLUME CHECK = 1.8191 INCHES

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JPUT SUMMARY:

STORM:

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*************************
          * EARTHFAX ENGINEERING. INC.
          * HYDROGRAPH GENERATION MODEL *
           USING SCS CURVE NUMBER
               METHODOLOGY
          )ENTIFICATION: SED. POND INFLOW FROM PMP
WATERSHED:
                     AREA = 0.016 50. M).
    DIST. - SCS TYPE B
                     CN = 76.0
    DEFIH = 4.10 IN.
                     TIME OF CONC. = 0.32 HP.
    MRATION = A.0 HR.
JTPUT SUMMARY:
OTAL RUNOFF DEPTH = 1.8155 INCHES
  MITIAL ABSTRACTION = 0.6316 INCHES
  PEAK FLUW = 14.45 CFS ( 1.3992 IN/HR)
  TIME TO PEAK = 2.57 HOURS
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JPUT SUMMARY:

STORM:

RUNOFF VOLUME CHECK = 1.8191 INCHES

张林林林林林林林林林林林林林林林林林林林林林林林林林林林 * EARTHFAX ENGINEERING. INC. * HYDROGRAPH GENERATION MODEL * USING SCS CURVE NUMBER METHODOLOGY ****** DENTIFICATION: SED. FOND INFLOW FROM PMP ()食物质 法共享的 网络比较的 化水油 医安全氏性原染性原染性原染性原染性原染性原染性原染性原染性原染性 非非常的非常的现在分词 WATERSHED: D)ST. = FARMER-FLETCHER AREA = 0.016 SQ. MI. DEFTH = 4.10 IN.CM = 76.0TIME OF CONC. = 0.32 HF. MRATTON = 6.0 HR.· 4.我开始的国际政治技术,我们还是在全国的企业,我们是有关系的企业的,我们的企业的,我们的企业的企业的企业。 TIPEO SUMMARY: ·共小科学的大学的特别的大学的技术的技术的技术的关系的主要的关系的关系的技术的技术的大学的大学的大学的大学的大学的 OTAL RUMOFF DEPTH = 1.8155 INCHES MITIAL ARSTRACTION = 0.6316 INCHES PEAK FLOW = 9.57 CFS (0.9266 IN/HR)

IPUT SUMMARY:

STURMS

TIME TO PEAK = 1.26 HOURS

RUNOFF VOLUME CHECK = 1.8191 INCHES